TEMPORARY COOLING OPTIONS

|  | OPTION | ADDITIONAL CONSTRUCTION COST* | TEMPORARY ENERGY COST | ENGINEERING COST | ATC COST | TOTAL | COMMENTS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | As designed with (4) TACU's with waste heat discharging into plenum. Operate chiller(s) and <br> (4) AHU systems 24/7. | \$0 | $\begin{aligned} & \$ 25,000- \\ & \$ 39,000 \end{aligned}$ | \$0 | ? | $\begin{gathered} \$ 25,000- \\ \$ 39,000 \end{gathered}$ | 1. Temporary increase in energy cost. <br> 2. Are there other temporary energy reduction measures (220kW) |
| 2 | As designed with (4) TACU's with waste heat discharging into plenum. Operate AHU's $24 / 7$ but only run chillers during occupied hours (or free cooling) | \$18,000 <br> (potential delay claims) <br> (demobilize / mobilize ) | $\begin{aligned} & \$ 15,000- \\ & \$ 20,000 \end{aligned}$ | \$0 | ? | $\begin{gathered} \$ 33,000- \\ \$ 38,000 \end{gathered}$ | 1. Temporary increase in energy cost. <br> 2. Are there other temporary energy reduction measures (220kW) |
| 3 | Duct condenser inlet \& discharge. to exterior | Ductwork: <br> (8) @ $\$ 250=\$ 2,000$ Window Removal \& Replace: <br> (8) @ \$500 = \$4,000 Plywood, etc: <br> (8) $@ \$ 320=\$ 2,560$ <br> TOTAL: $\$ 8,560$ | $\begin{gathered} \$ 3,000- \\ \$ 6,000 \end{gathered}$ | \$3,000 | \$1,000 | $\begin{gathered} \$ 15,560- \\ \$ 18,560 \end{gathered}$ | 1. Water infiltration potential. <br> 2. Shutdown of shaft will not affect the operation of the TACU's. <br> 3. Long runs of ductwork may reduce system capacity. |
| 4 | Duct condenser discharge to exterior thru a window but inlet from plenum. | Ductwork: <br> (4) @ $\$ 250=\$ 1,000$ Window Removal \& Replace: <br> (4) @ \$500 = \$2,000 Plywood, etc: $\frac{(4) @ \$ 320=\$ 1,80}{\text { TOTAL: } \$ 4,280}$ | $\begin{gathered} \$ 5,000- \\ \$ 8,000 \end{gathered}$ | \$3,000 | \$1,000 | $\begin{gathered} \$ 13,280- \\ \$ 16,280 \end{gathered}$ | 1. Water infiltration potential. <br> 2. Shutdown of shaft will not affect the operation of the TACU's. <br> 3. Long runs of ductwork may reduce system capacity. |
| 5 | Avoid using TACU's and instead pipe permanent units from another floor | \$15,000-\$20,000 | \$0 | \$ 5,000 | \$0 | $\begin{aligned} & \$ 20,000- \\ & \$ 25,000 \end{aligned}$ | 1. Time delay impact? |

*Construction Costs and Fees are estimated costs by the engineer and are subject to contractor proposal costs \& scope verification.

